

09730784-130700

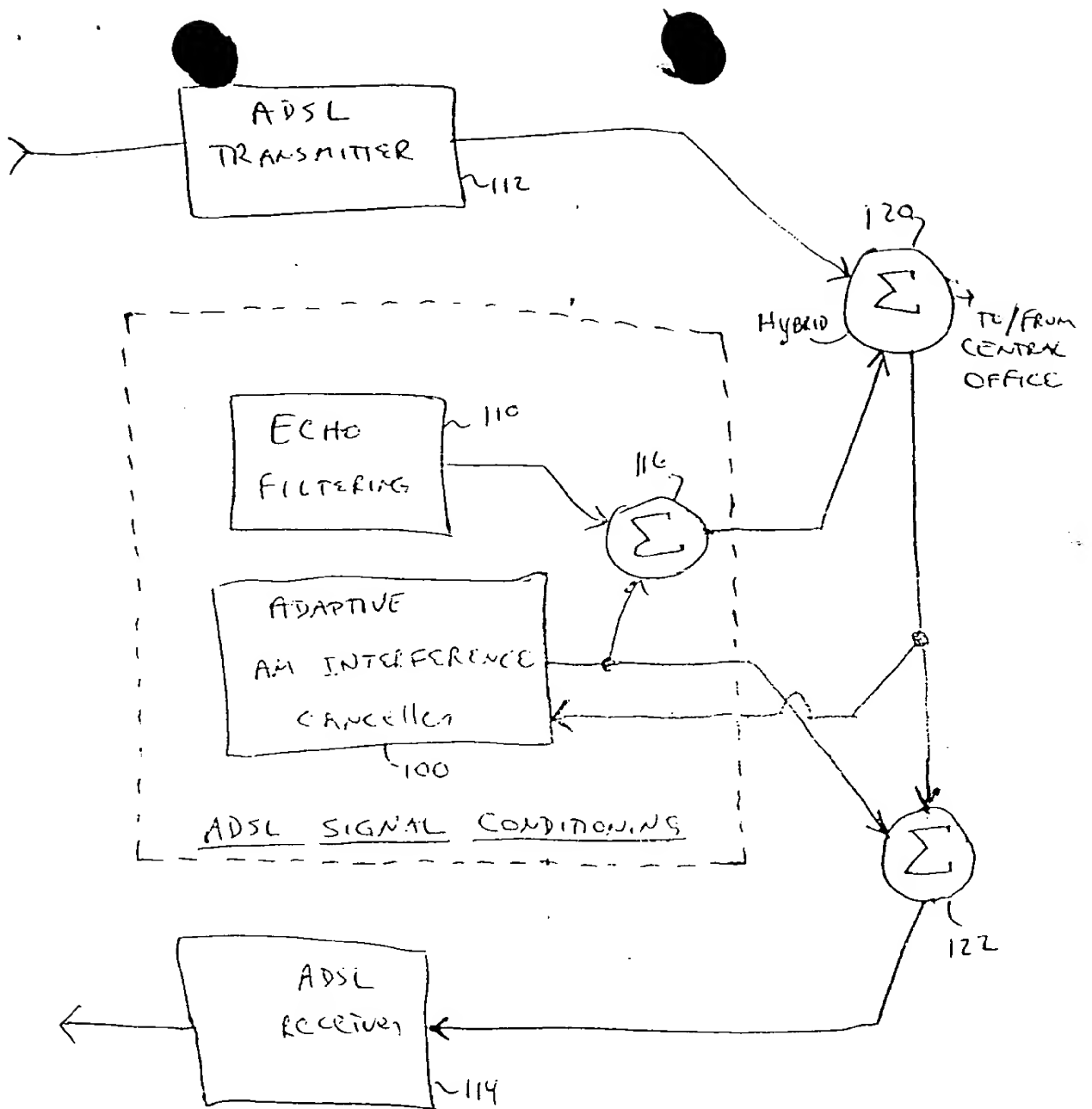


FIG. 1

ADAPTIVE AM INTERFERENCE CANCELLATION INTEGRATED INTO ADSL CODEC / AFE

UNDESIRABLE AM RADIO INTERFERENCE ENTERS AFE HERE

210 ADSL TRANSMITTER DIGITAL TO ANALOG CONVERTER

206 LINE DRIVER

112 MATCHING RESISTANCE

110 ADSL TRANSMITTER ECHO FILTER

147 ADSL TRANSMITTER DIGITAL TO ANALOG CONVERTER

120 HYBRID

600 REFERENCE AM RECEIVER

604 ANALOG TO DIGITAL CONVERTER

606 ADAPTIVE INTERFERENCE CANCELLER

702 ADSL ANALOG TO DIGITAL CONVERTER

100 AM INTERFERENCE IS REMOVED WITHOUT AFFECTING DESIRED SIGNAL

FIG. 2

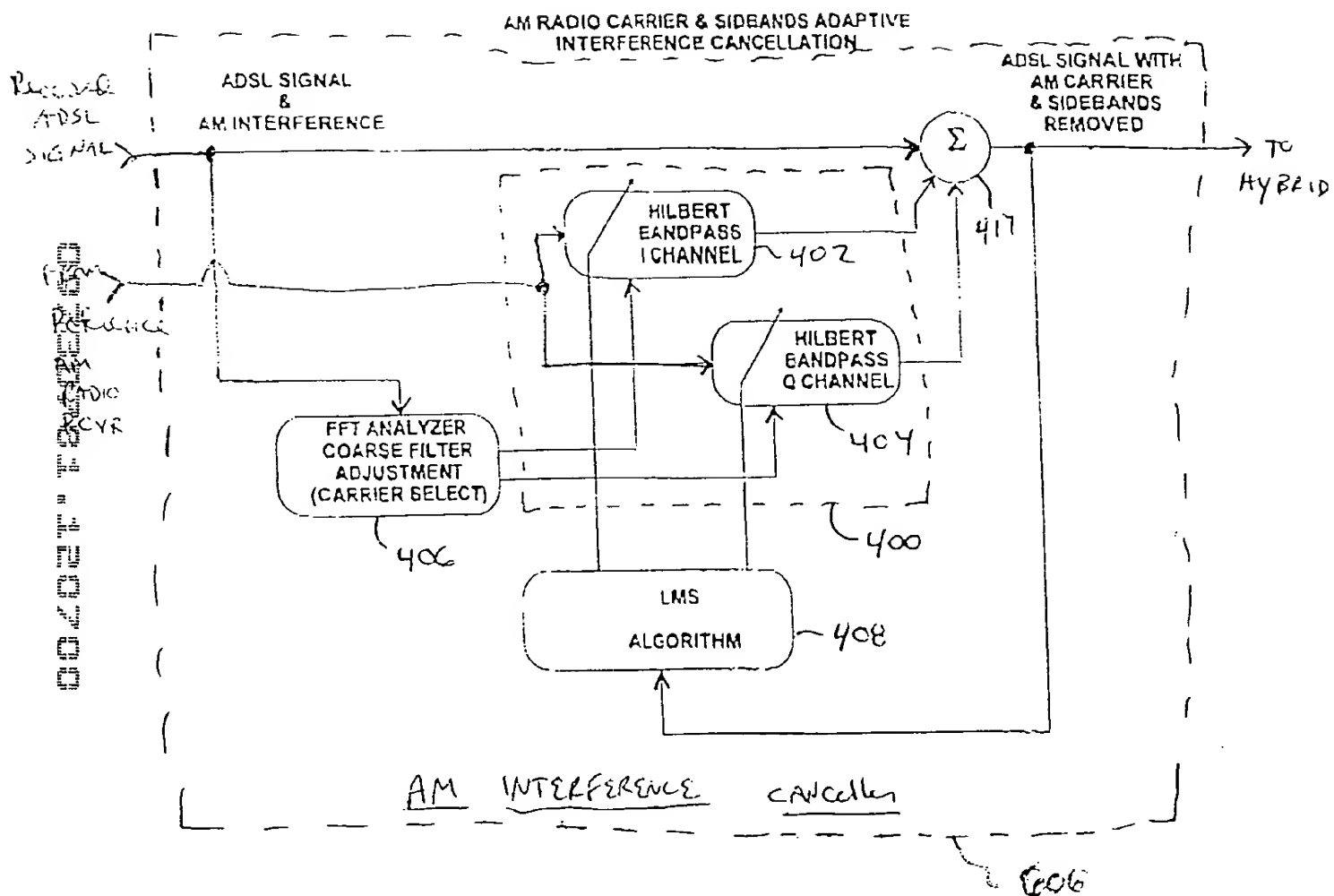


FIG. 3

CARRIER ONLY ADAPTIVE
INTERFERENCE CANCELLATION

Received
ADSL
Signal

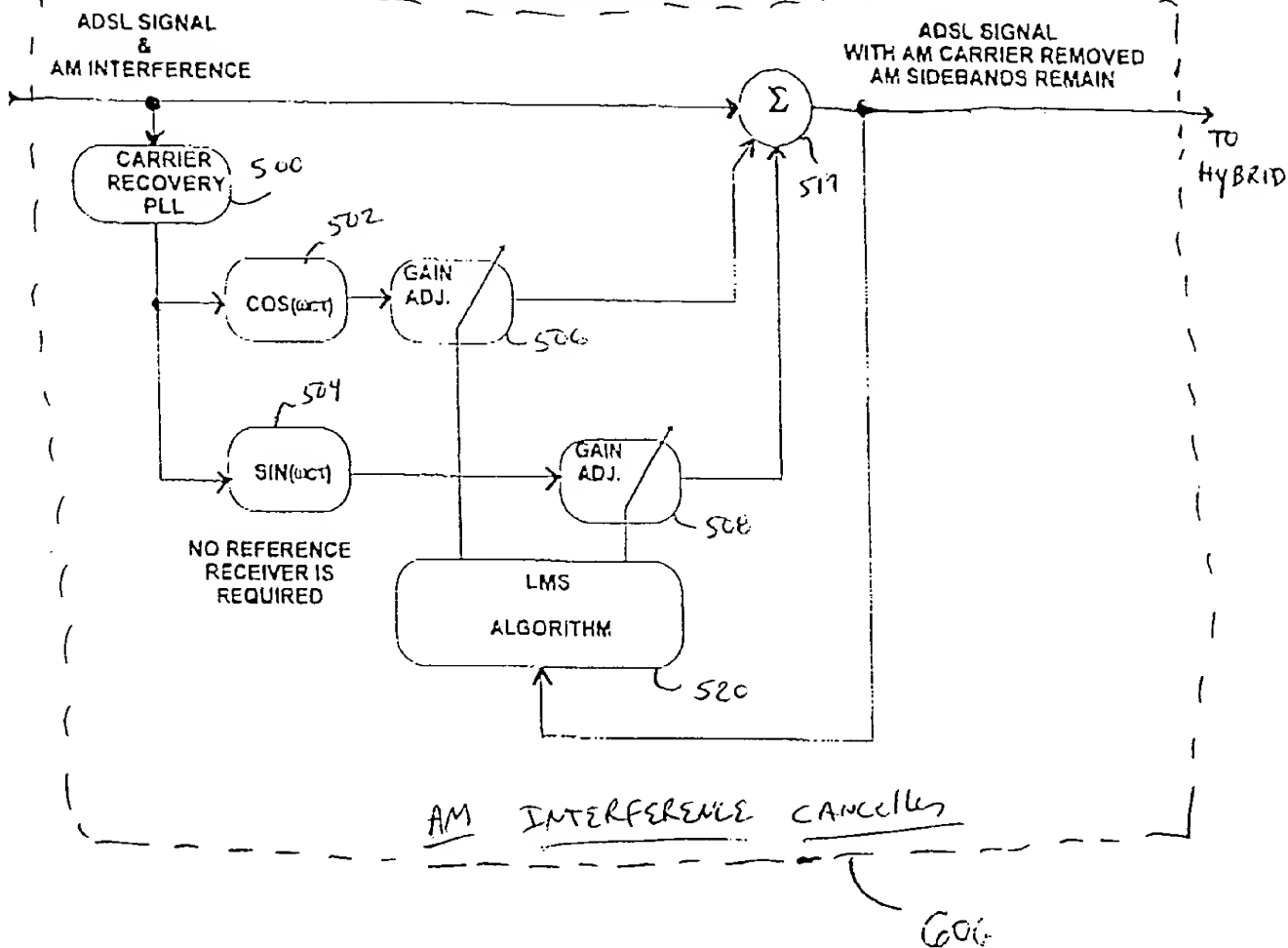


FIG. 4

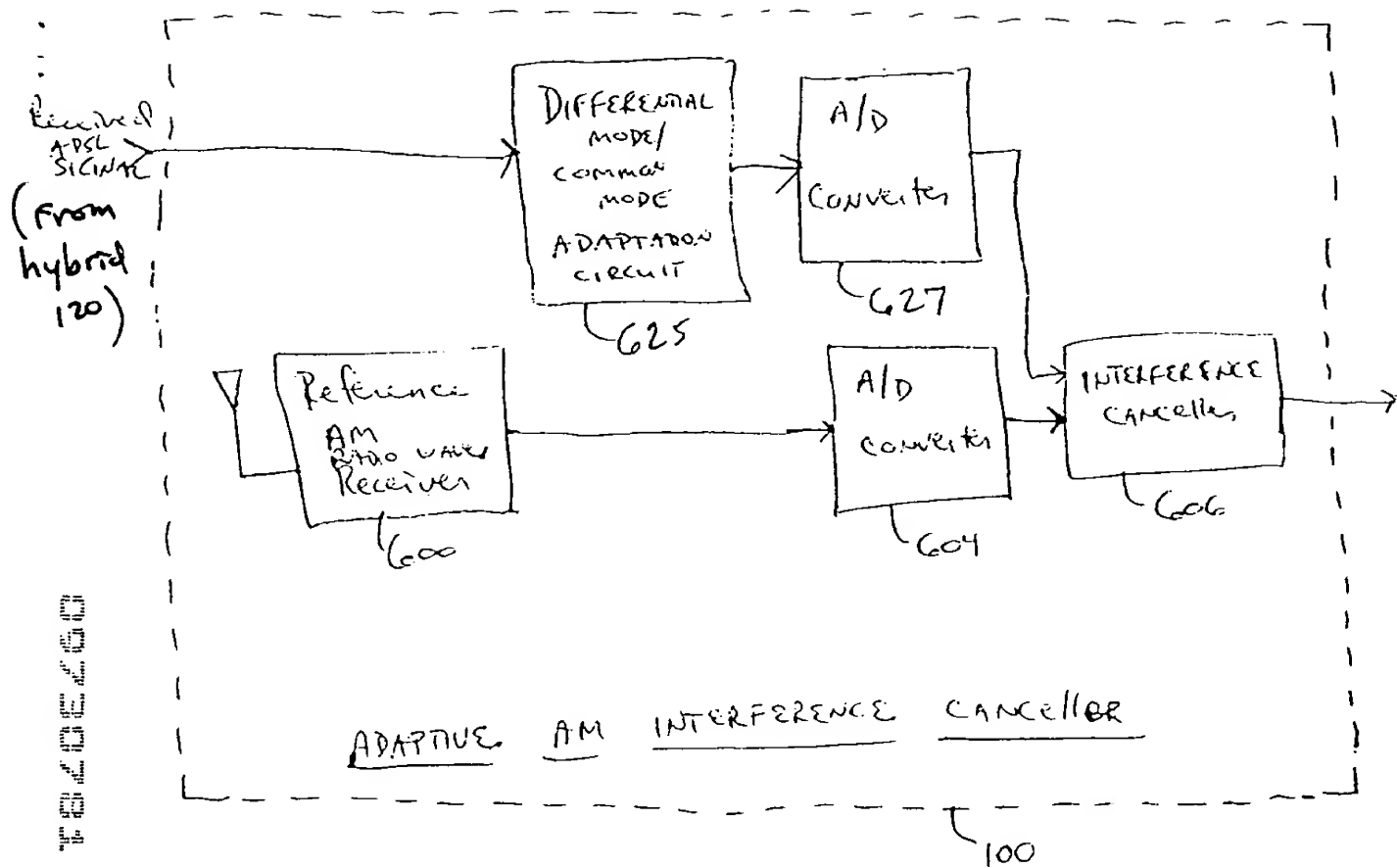


FIG. 5

002021-100000

DIFFERENTIAL MODE/COMMON MODE ADAPTATION CIRCUIT

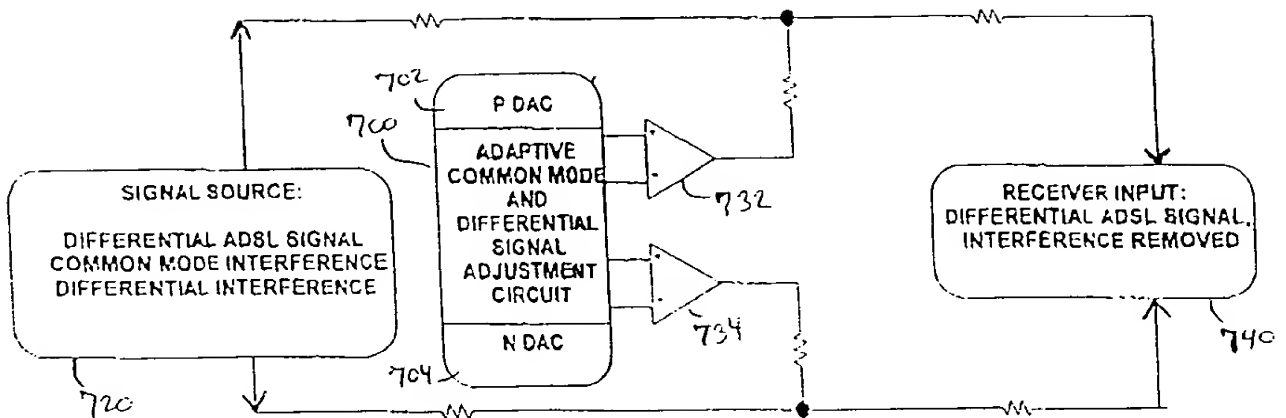


FIG. 6

47

09730781-120700

Traditional Analog Bandwidth Usage

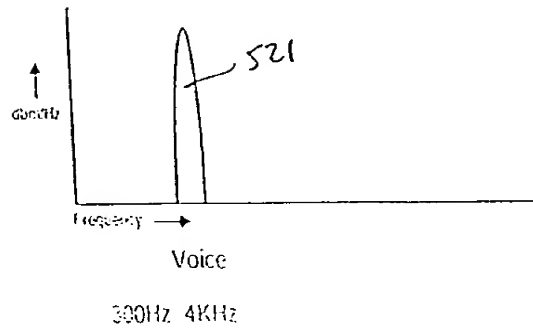


FIG. 7

DSL Bandwidth Usage

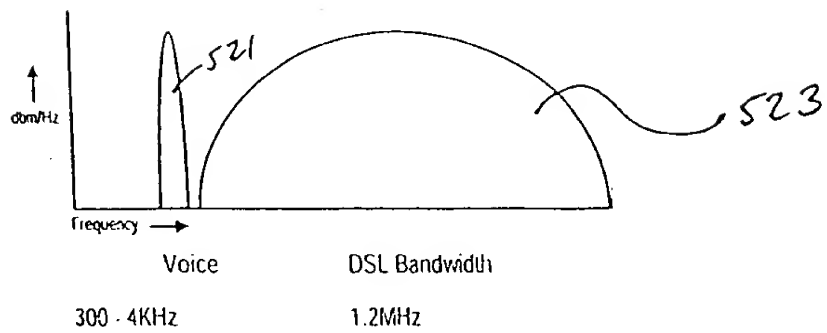
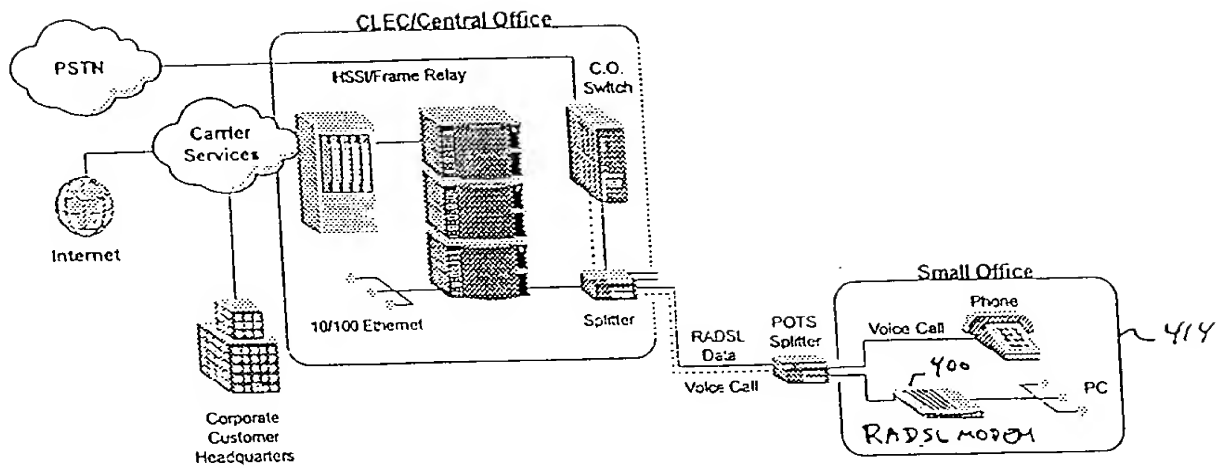
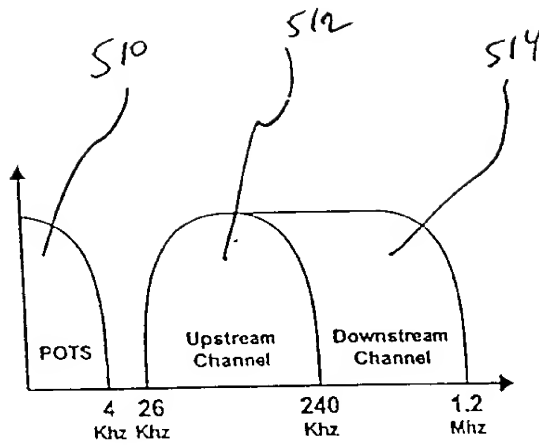


FIG. 8



PRIOR ART
FIG. 9

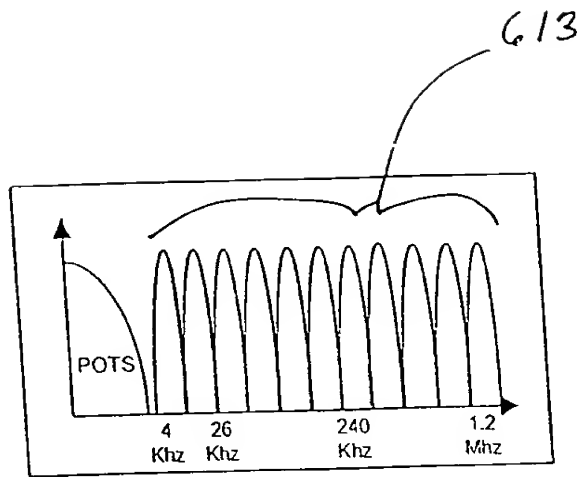
0020327 13432250



Spectral distribution of RADSL CAP

FIG. 10

002027-180260



Spectral Distribution of RADSL-DMT

FIG. 11

